

Docket No. PUR-020
Serial No. 10/735,352

PATENT APPLICATION

CLAIM LISTING

The following is a complete listing of the claims in this application.

Claim 1. (Cancelled).

1 2. (Previously Presented) The method of making a catheter according to claim
2 28, further comprising the step of anchoring the group of filaments at or near a proximal
3 end of the core member before winding the group of filaments onto the core member.

1 3. (Previously Presented) The method of making a catheter according to claim 2,
2 wherein the group of filaments is wound onto the core member continuously from the
3 proximal end of the core member to a distal end thereof and then back to the proximal
4 end.

Claim 4. (Cancelled).

1 5. (Previously Presented) The method of making a catheter according to claim
2 28, wherein the core member is a mandrel on which the catheter is formed.

1 6. (Previously Presented) The method of making a catheter according to claim
2 28, wherein the core member is a substrate that forms an inner lining of the catheter.

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Claims 7 to 23. (Cancelled).

1 24. (Previously Presented) The method of making a catheter according to claim
2 28, wherein said group of filaments are wound with a variable pitch such that a filament
3 group spacing at a distal end of the core member is narrower than a filament group
4 spacing at a proximal end of the core member.

Claims 25 to 27. (Cancelled).

1 28. (Previously Presented) A method of making a catheter, comprising the steps
2 of:
3 winding a filament onto a core member while rotating the core member relative to
4 a filament source and passing the filament source in a first direction of axial movement
5 relative to the core member; and
6 reversing a direction of axial movement of the filament source while continuing to
7 wind the filament onto the core member, whereby the filament is continuously wound
8 onto the core member to form a first fibrous layer as the filament source is moved relative
9 to the core member from a first axial position to a second axial position and then back to
10 the first axial position;
11 wherein said step of winding a filament comprises winding a group of filaments
12 simultaneously; and

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13 further comprising the step of providing a guide assembly having a filament
14 engaging surface, and arranging said guide assembly such that the filament engaging
15 surface lies in a plane which is generally perpendicular to a longitudinal axis of the core
16 member, whereby the guide assembly causes the filaments within said group of filaments
17 to be positioned side-by-side and packed tightly against one another as the group of
18 filaments are wound onto the core member.

1 29. (Original) The method of making a catheter according to claim 28, further
2 comprising the step of varying a rotation speed of the core member or a translation speed
3 of the filament source along the core member to vary a pitch of the group of filaments
4 being wound onto the core member.

Claim 30. (Cancelled).

1 31. (Previously Presented) The method of making a catheter according to claim
2 36, further comprising the step of varying a rotation speed of the core member or a
3 translation speed of the source of filaments along the core member to vary a pitch of the
4 group of filaments being wound onto the core member.

1 32. (Previously Presented) The method of making a catheter according to claim
2 36, wherein said group of filaments are wound with a variable pitch such that a filament

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- 3 group spacing at a distal end of the core member is narrower than a filament group
4 spacing at a proximal end of the core member.

Claims 33 to 35. (Cancelled).

- 1 36. (Previously Presented) A method of making a catheter, comprising the step
2 of winding a group of filaments simultaneously onto a core member while rotating the
3 core member relative to a source of said filaments and passing the source of filaments in a
4 first direction of axial movement relative to the core member;
5 further comprising the step of providing a guide assembly having a filament
6 engaging surface, and arranging said guide assembly such that the filament engaging
7 surface lies in a plane which is generally perpendicular to a longitudinal axis of the core
8 member, whereby the guide assembly causes the filaments within said group of filaments
9 to be positioned side-by-side and packed tightly against one another as the group of
10 filaments are wound onto the core member.

- 1 37. (Previously Presented) The method of making a catheter according to claim
2 36, further comprising the step of reversing a direction of axial movement of the source
3 of filaments relative to the core member while continuing to wind the group of filaments
4 onto the core member, whereby the filaments are continuously wound onto the core
5 member as the source of filaments is moved relative to the core member from a first axial

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6 position to a second axial position and then back to the first axial position.

Claims 38 to 49. (Cancelled).

1 50. (Previously Presented) A method of making a catheter, comprising the steps
2 of:
3 anchoring a group of filaments to a core member at a proximal end of the catheter;
4 winding the group of filaments simultaneously onto the core member while
5 rotating the core member relative to a filament source and passing the filament source in a
6 first direction of axial movement relative to the core member toward a distal end of the
7 catheter; and
8 reversing a direction of axial movement of the filament source while continuing to
9 wind the group of filaments simultaneously onto the core member, whereby the group of
10 filaments are continuously wound onto the core member to form a fibrous layer as the
11 filament source is moved relative to the core member from the proximal end to the distal
12 end and then back to the proximal end.

1 51. (Previously Presented) The method of making a catheter according to claim
2 50, further comprising the step of passing the group of filaments through a guide
3 assembly to orient the group of filaments into a plane which is generally perpendicular to
4 a longitudinal axis of the core member, and causing the filaments to be naturally

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- 5 reoriented and packed tightly against one another as the group of filaments are wound
6 onto the core member.